






Yannick Burkhardt


 Munich, Germany

 August 25, 1997


 +49 176 42997580


 yannick.burkhardt@web.de


 yannickBurkhardt

 yannickburkhardt.github.io

Interests

 Robot control, trajectory planning, manipulation


 Machine learning & vision

 Hiking, football, water polo

Skills

 C++, Python, Java

 ROS, DDS, Conan, Git

 Matlab/ Simulink, Maple, CAD, LaTeX, MS Office

Languages

 German: native

 English: *TOEFL iBT* 92%

 Spanish

Education

- Apr. 2024 – Present** **Technical University of Munich**
PhD candidate in Smart Robotics Lab
Event-based visual perception for robot control
- Oct. 2020 – Jul. 2023** **Technical University of Munich**
M.Sc. Robotics, Cognition, Intelligence
(Grade: 1.1)
Feb. – Jun. 2023 **Technológico de Costa Rica** (Exchange)
- Oct. 2016 – Feb. 2020** **Karlsruhe Institute of Technology**
B.Sc. Mechatronics and Information
Technology (Grade: 1.6)
- Aug. 2008 – Jun. 2016** **Alexander-von-Humboldt-Gymnasium**
Allgemeine Hochschulreife (Grade: 1.0)

Work Experience

- Aug. 2023 – Feb. 2024** **Agile Robots AG**
Robot Software Engineer
Robot control framework implementation
- Oct. 2020 – Jan. 2023** **Agile Robots AG**
Working Student & Master Thesis
Visual servo control for deep-learning
based robot grasping, kinematic calibration
- Oct. 2019 – May 2020** **LEONI Elocab Ltd.**
Internship in Kitchener, Canada
Cable construction and testing
- Oct. 2018 – Aug. 2019** **Research Center for Information Tech.**
Research Assistant & Bachelor Thesis
Shared Control for commercial vehicle

Publications

- Yannick Burkhardt et al. *Multi-fingered Dynamic Grasping for Unknown Objects*. 2024 IEEE-RAS International Conference on Humanoid Robots.
- Balint Varga, Arash Shahirpour, Yannick Burkhardt et al. *Validation of Cooperative Shared-Control Concepts for Large Vehicle-Manipulators*. 2020 IEEE Conference on Control Technology and Applications (CCTA).
- Balint Varga, Yannick Burkhardt et al. *Shared-Control Concepts for Large Vehicle-Manipulators*. 2020 IEEE 29th International Symposium on Industrial Electronics (ISIE).

Awards

- PhD scholarship from the Munich Center for Machine Learning (2024)
M.Sc. passed with high distinction (2023): top 1.5% graduate
5xDeutschlandstipendium (2017 – 2023)